

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR03/00544

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC7 C07K 16/18

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C07K 16/18, C07K 16/06, C07K 14/47, C12N 15/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

NCBI PubMed database, Esp@cenet database "Immunoglobulin A and diabetic retinopathy"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Genbank Accession No. P01876 'Ig alpha-1 chain C region' 1 February 1991 (01.02.1991)	1, 2
X	Genbank Accession No. AJ294729 'Homo sapiens partial mRNA for immunoglobulin heavy chain constant region alpha 1 (IGHA1 gene)' 9 February 2001 (09.02.2001)	7
Y A	LEE E.Y. et al. 'Immunoglobulin A nephropathy in patients with non-insulin dependent diabetes mellitus' In: J Korean Med Sci, 1999, Vol.14, pp582-585 See the whole document	3-5 1, 2, 7
Y A	PEEBLES R.S. Jr. et al. 'IgA, IgG and IgM quantification in bronchoalveolar lavage fluids from allergic rhinitis, allergic asthmatics, and normal subjects by monoclonal antibody-based immunoenzymetric assays' In: J Immunol Methods, 1995, Vol.179, pp77-86 See the whole document	3-5 1, 2, 7
A	STOLWIJK T.R. et al. 'Analysis of tear fluid proteins in insulin-dependent diabetes mellitus' In: Acta Ophthalmol, 1994, Vol.72(3), pp357-362 See the abstract	1-5, 7

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	


Date of the actual completion of the international search

28 JUNE 2003 (28.06.2003)

Date of mailing of the international search report

30 JUNE 2003 (30.06.2003)

Name and mailing address of the ISA/KR


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**Box I** Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 6  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Claim 6 is directed to the diagnostic method practiced on the human or animal body and is a subject matter which the International Search Authority is not required to search under Article 17(2)(a)(i) and Rule 39.1(iv) PCT.
2. ☐ Claims Nos.:  
because they relate to part of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II** Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Search Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be established without effort justifying an additional fee, this Authority did not invite payment of any addition fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

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